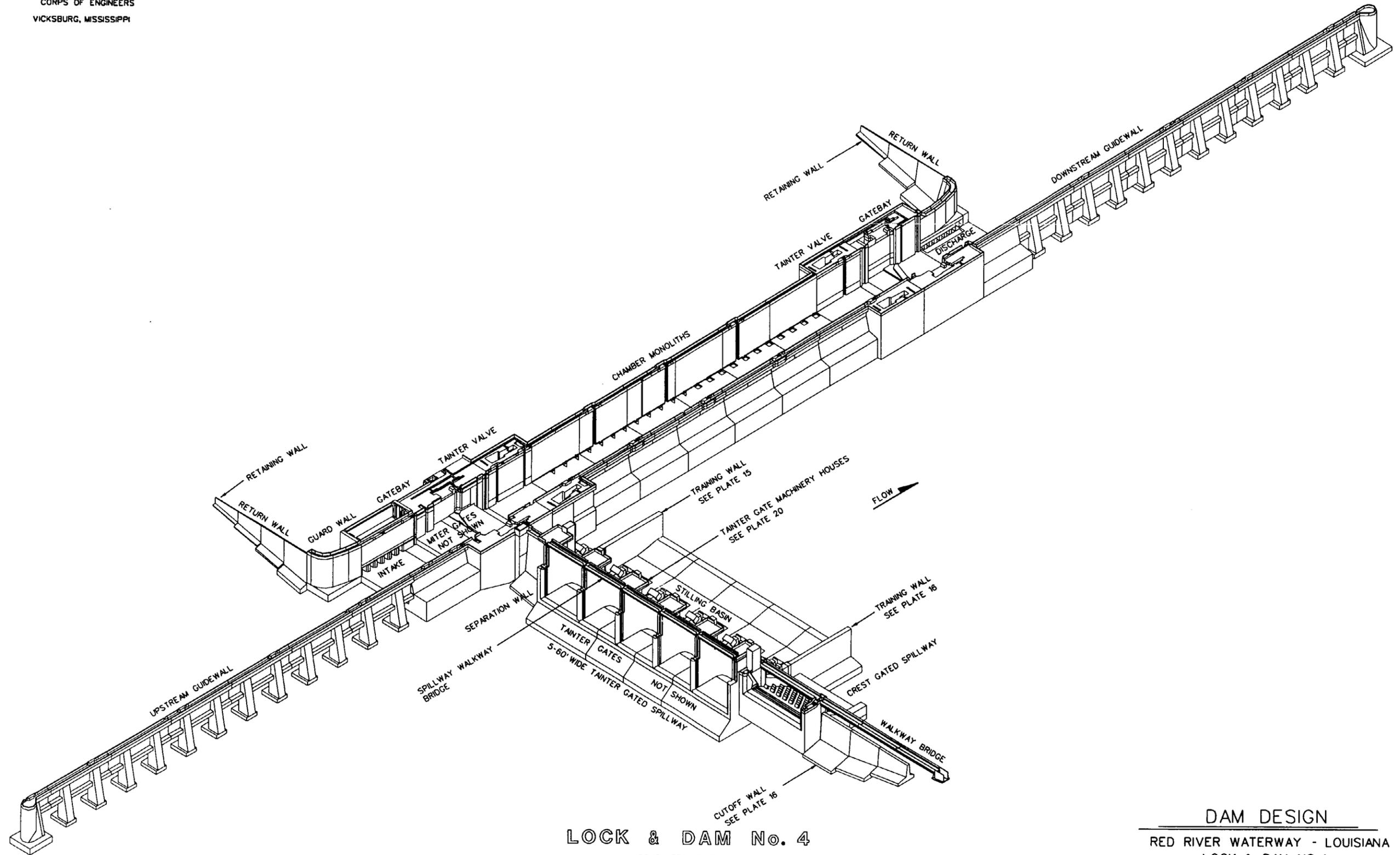
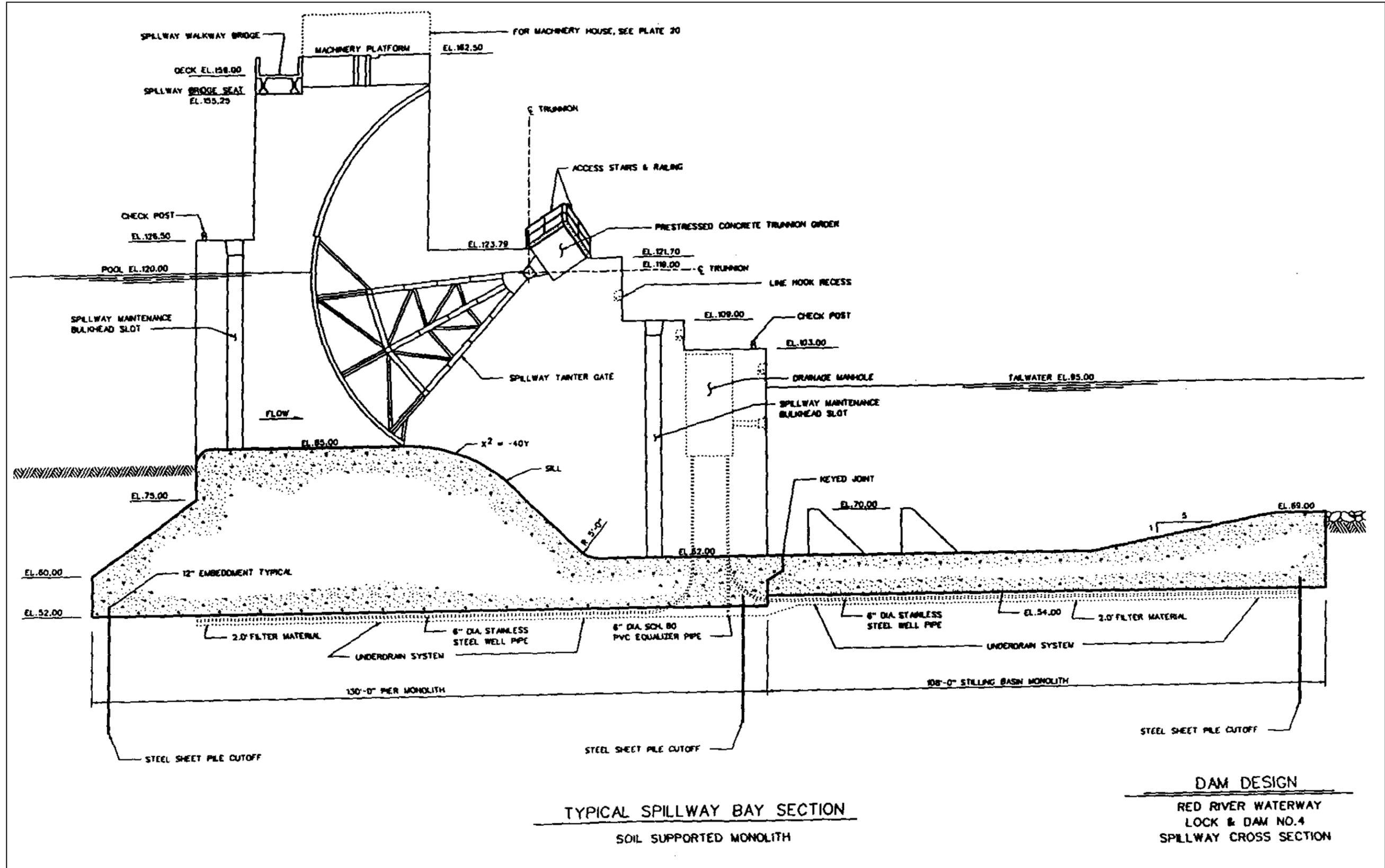


U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
VICKSBURG, MISSISSIPPI



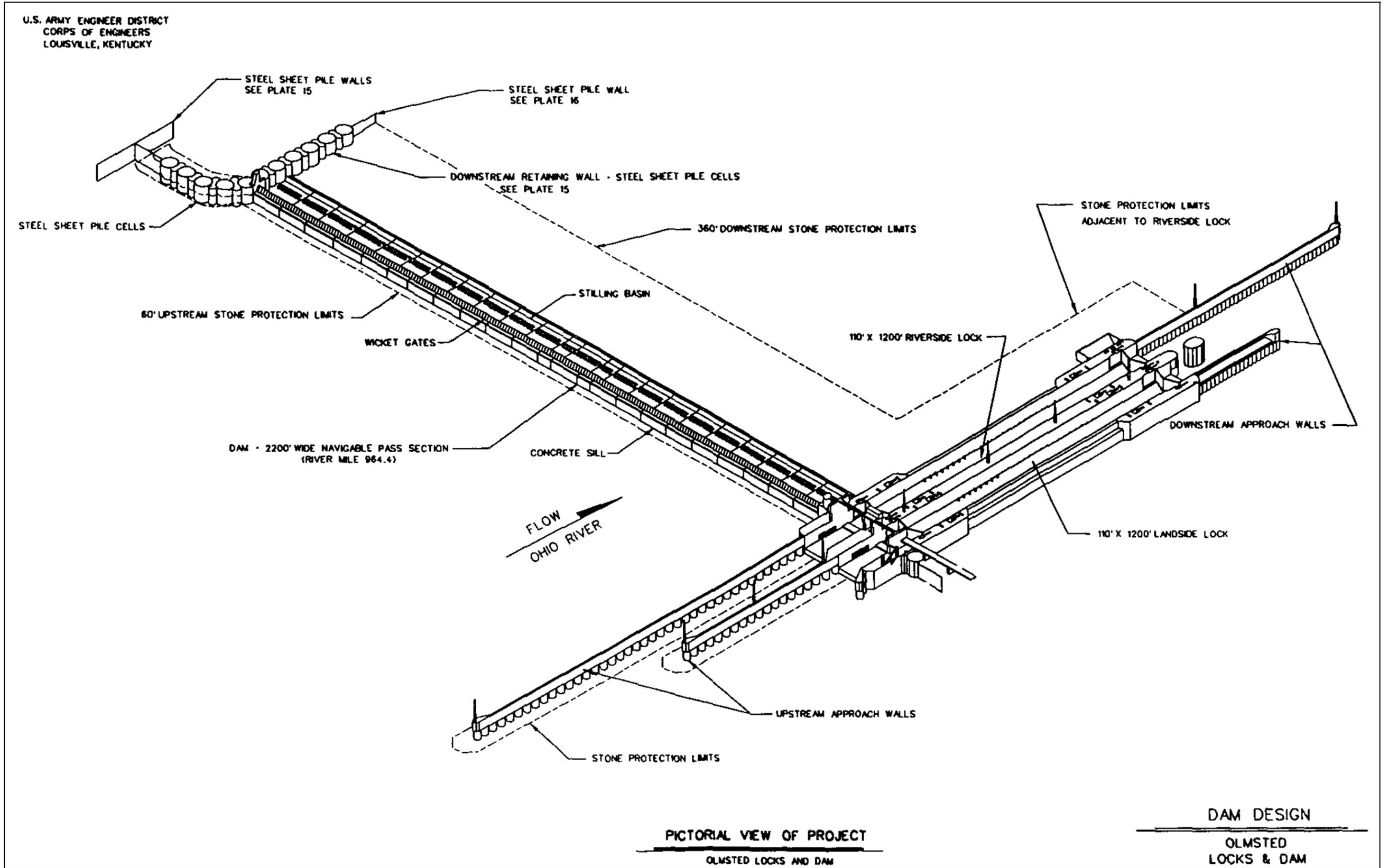
LOCK & DAM No. 4  
COUSHATTA, LOUISIANA

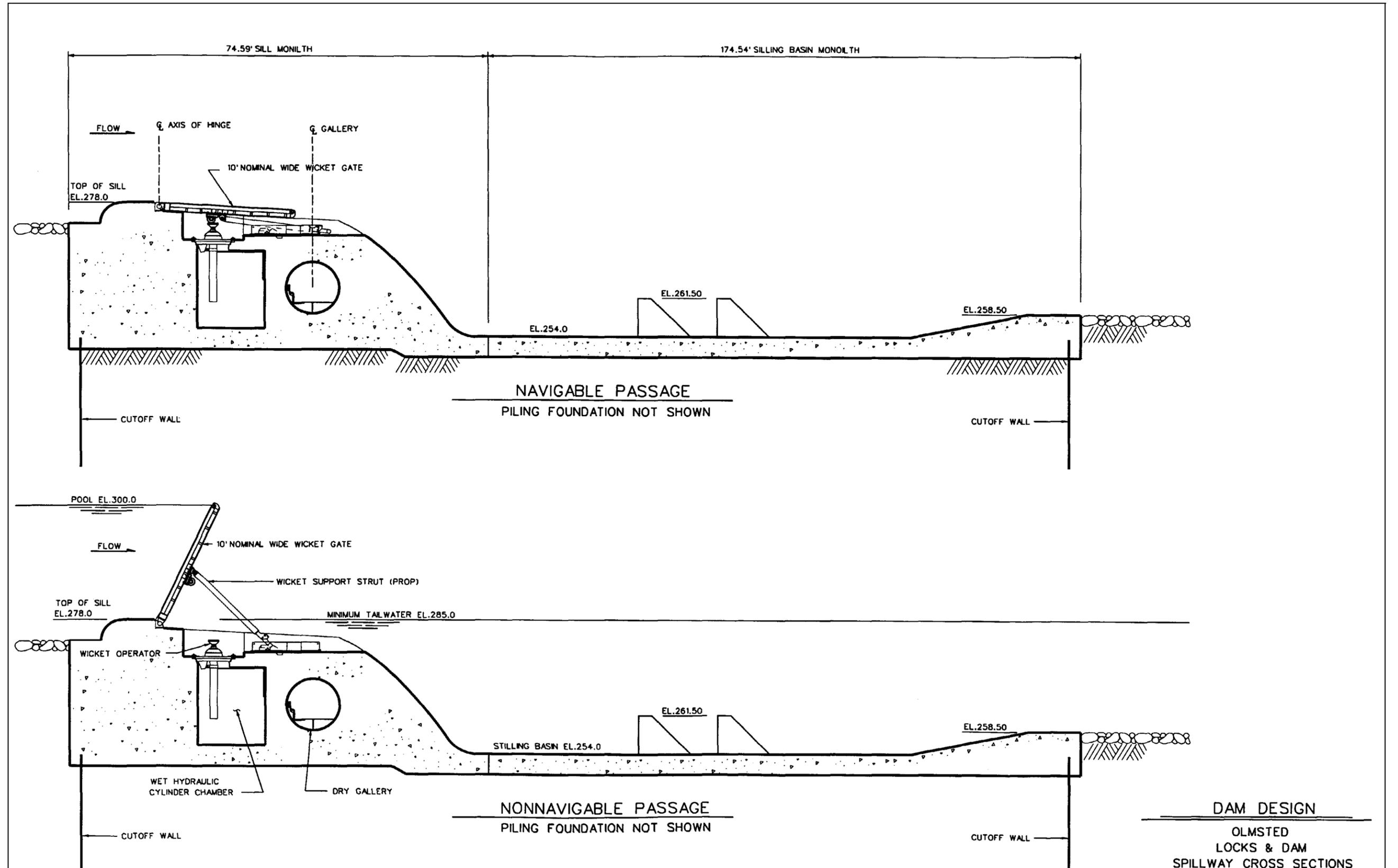
DAM DESIGN  
RED RIVER WATERWAY - LOUISIANA  
LOCK & DAM NO.4



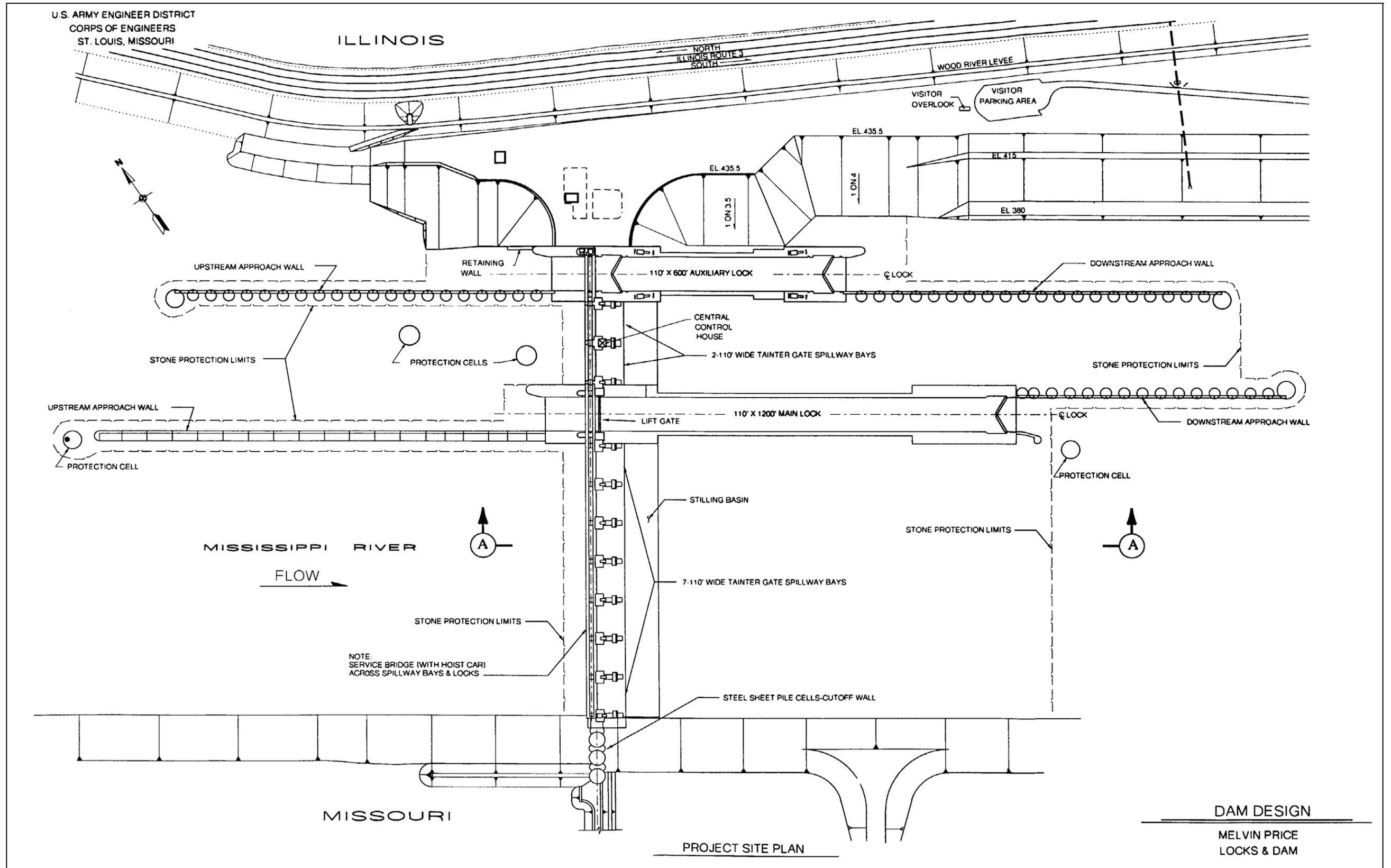
TYPICAL SPILLWAY BAY SECTION  
SOIL SUPPORTED MONOLITH

DAM DESIGN  
RED RIVER WATERWAY  
LOCK & DAM NO. 4  
SPILLWAY CROSS SECTION

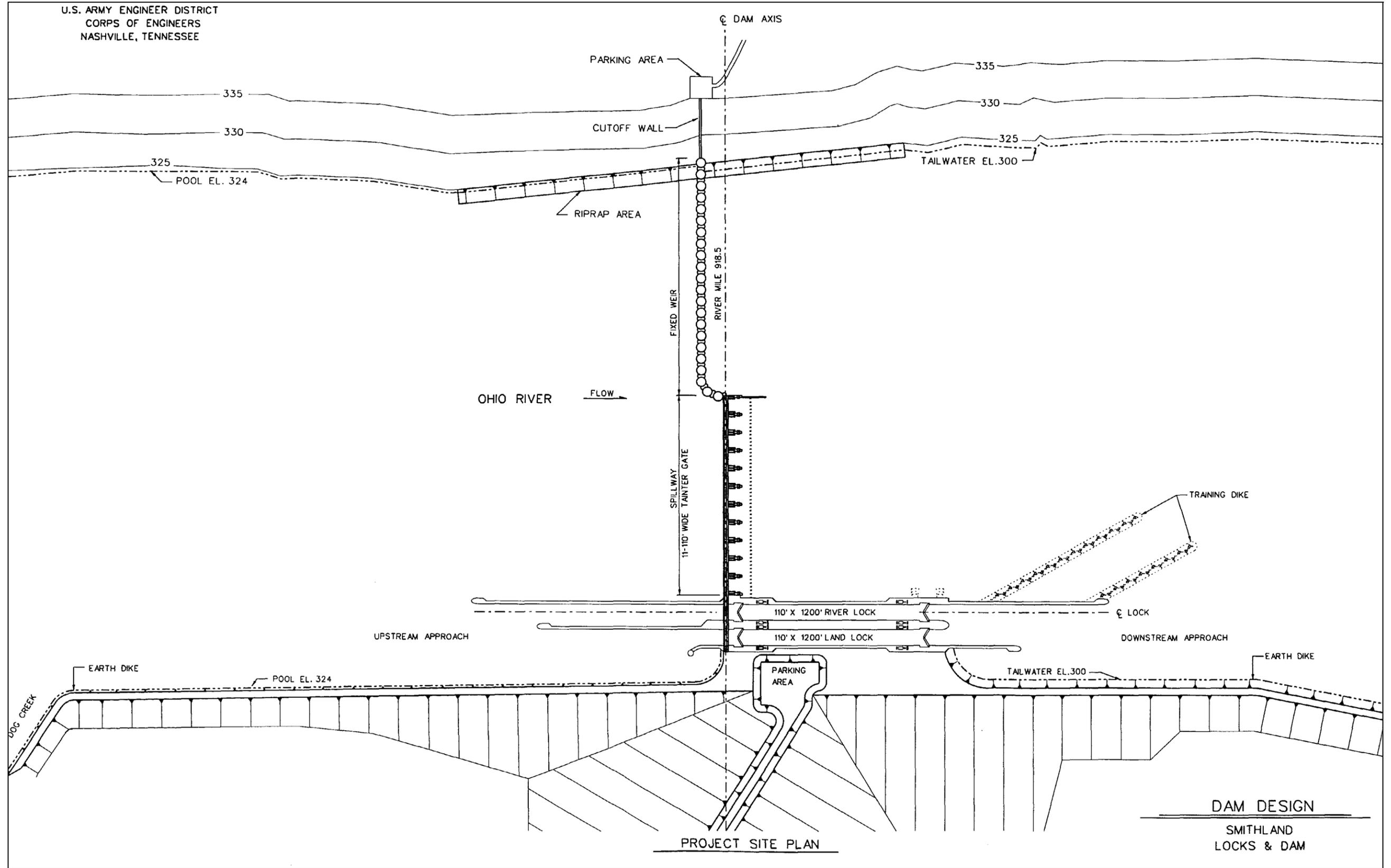


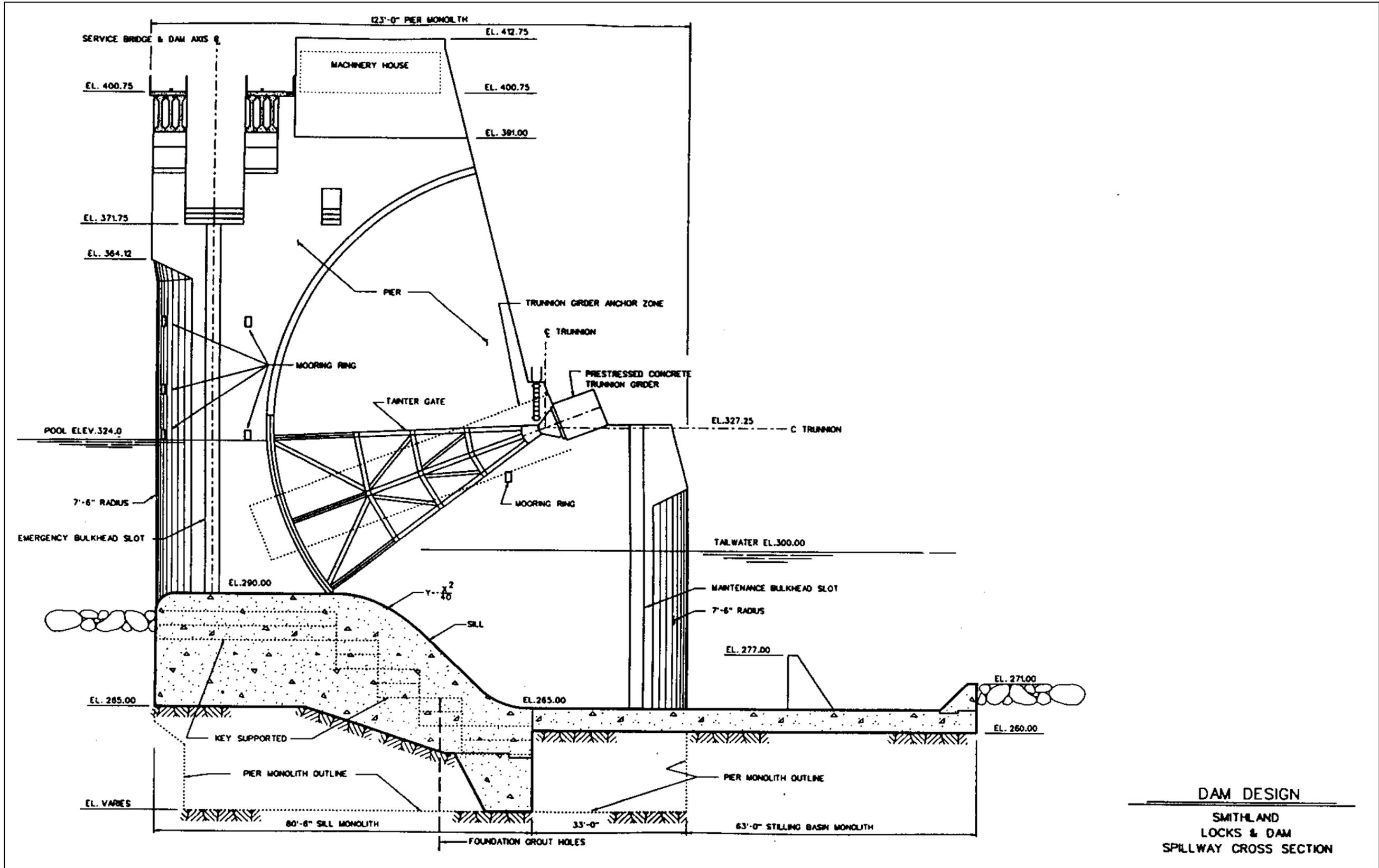


DAM DESIGN  
OLMSTED  
LOCKS & DAM  
SPILLWAY CROSS SECTIONS

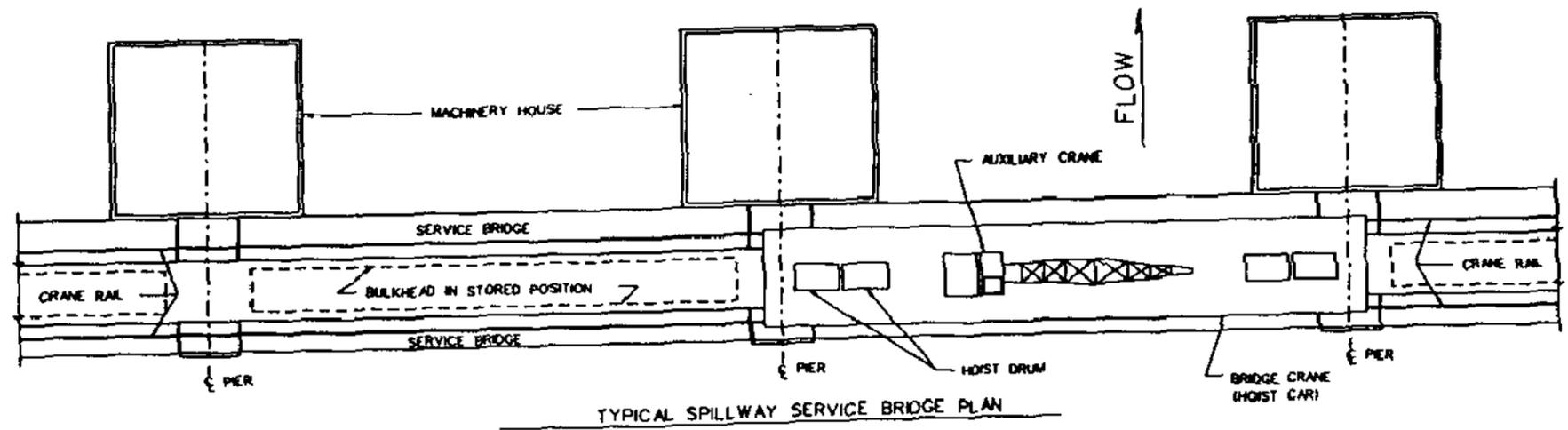




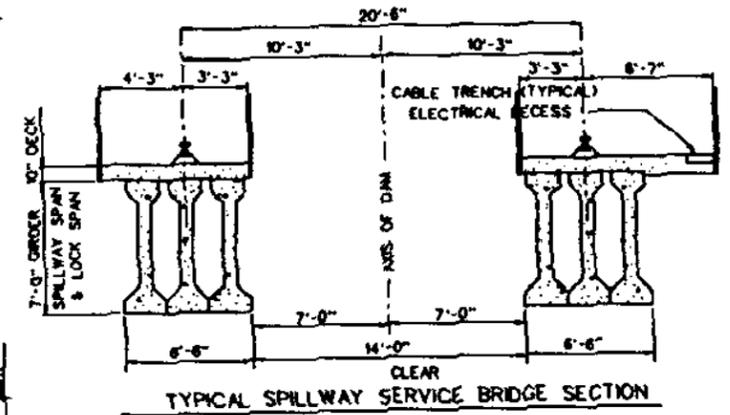




DAM DESIGN  
SMITHLAND  
LOCKS & DAM  
SPILLWAY CROSS SECTION

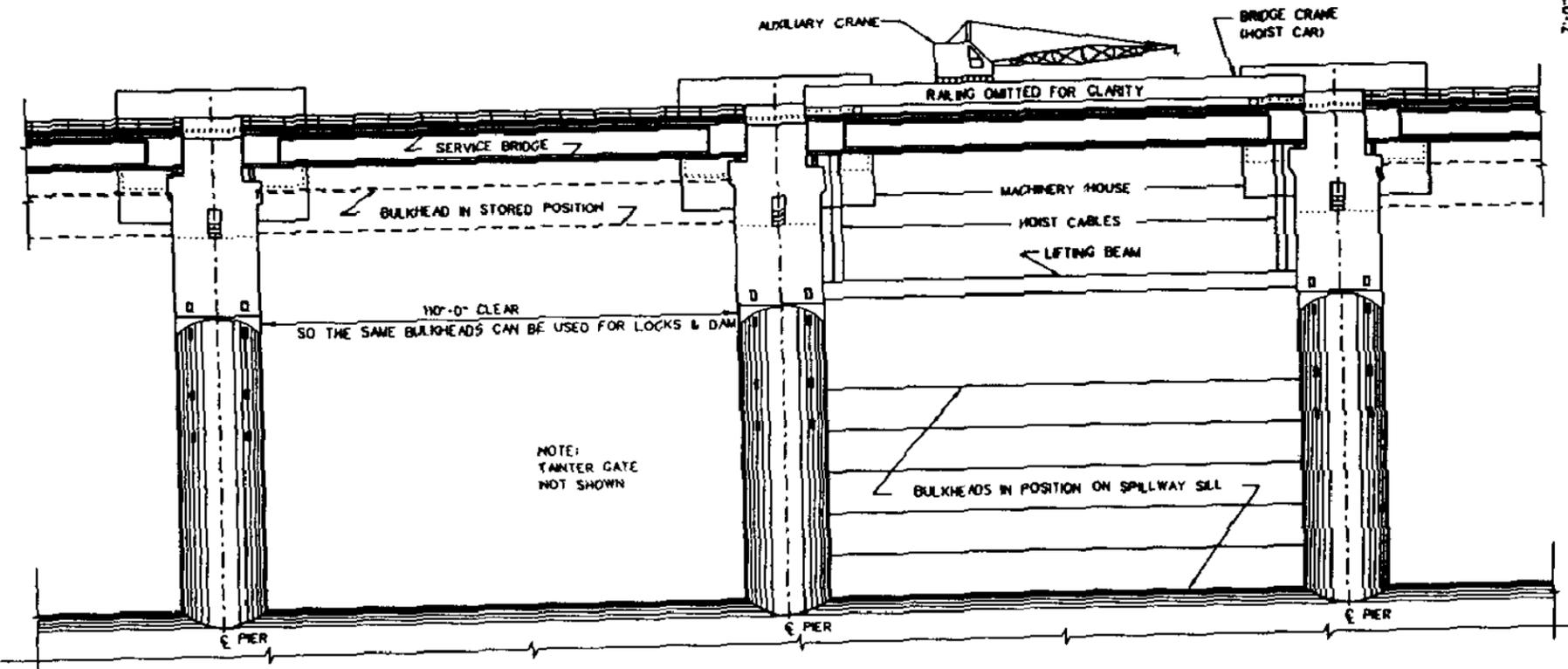


TYPICAL SPILLWAY SERVICE BRIDGE PLAN



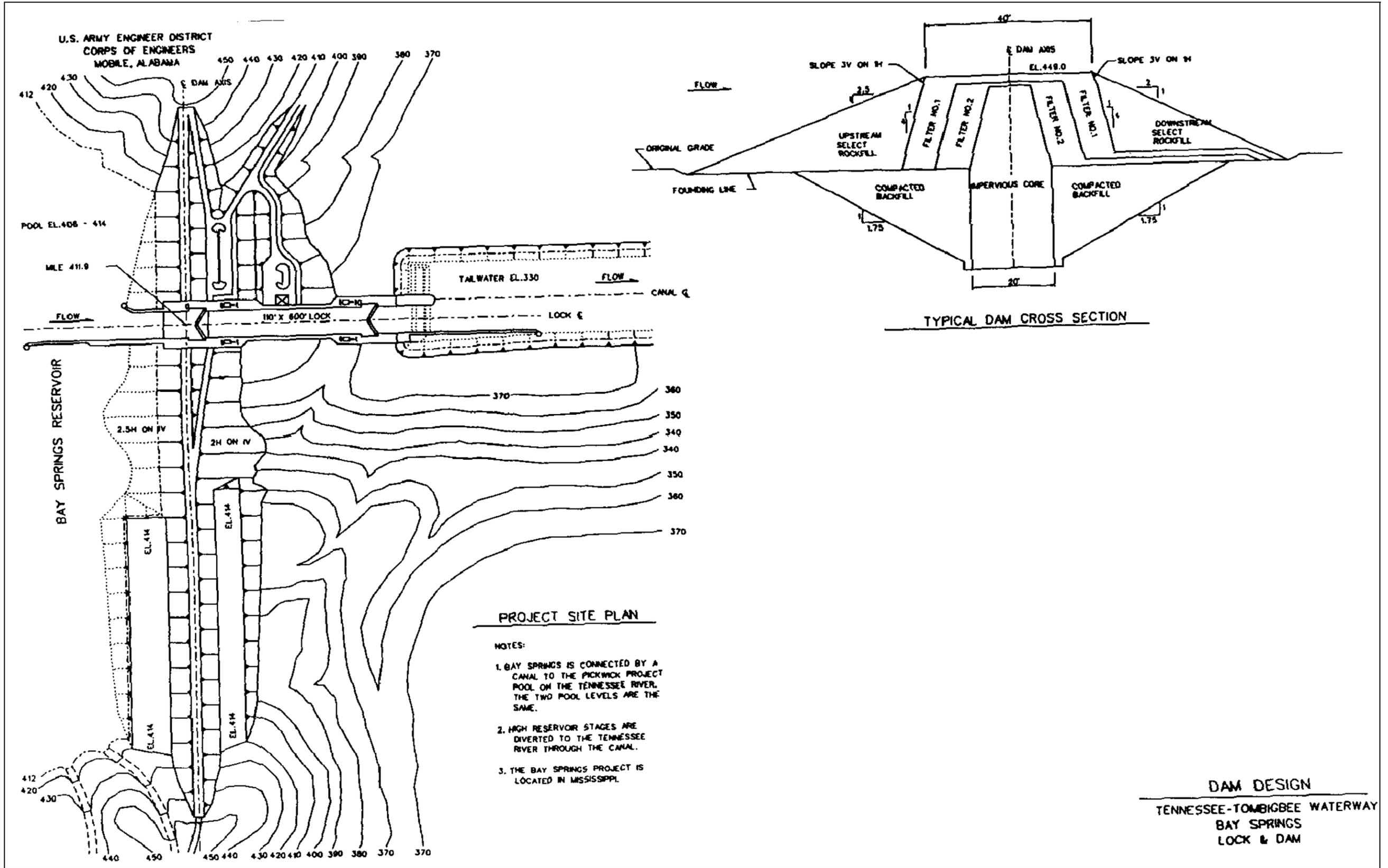
TYPICAL SPILLWAY SERVICE BRIDGE SECTION

NOTE:  
7'-0" GIRDERS ARE PRESTRESSED CONCRETE.  
10" DECK IS CAST-IN-PLACE CONCRETE.

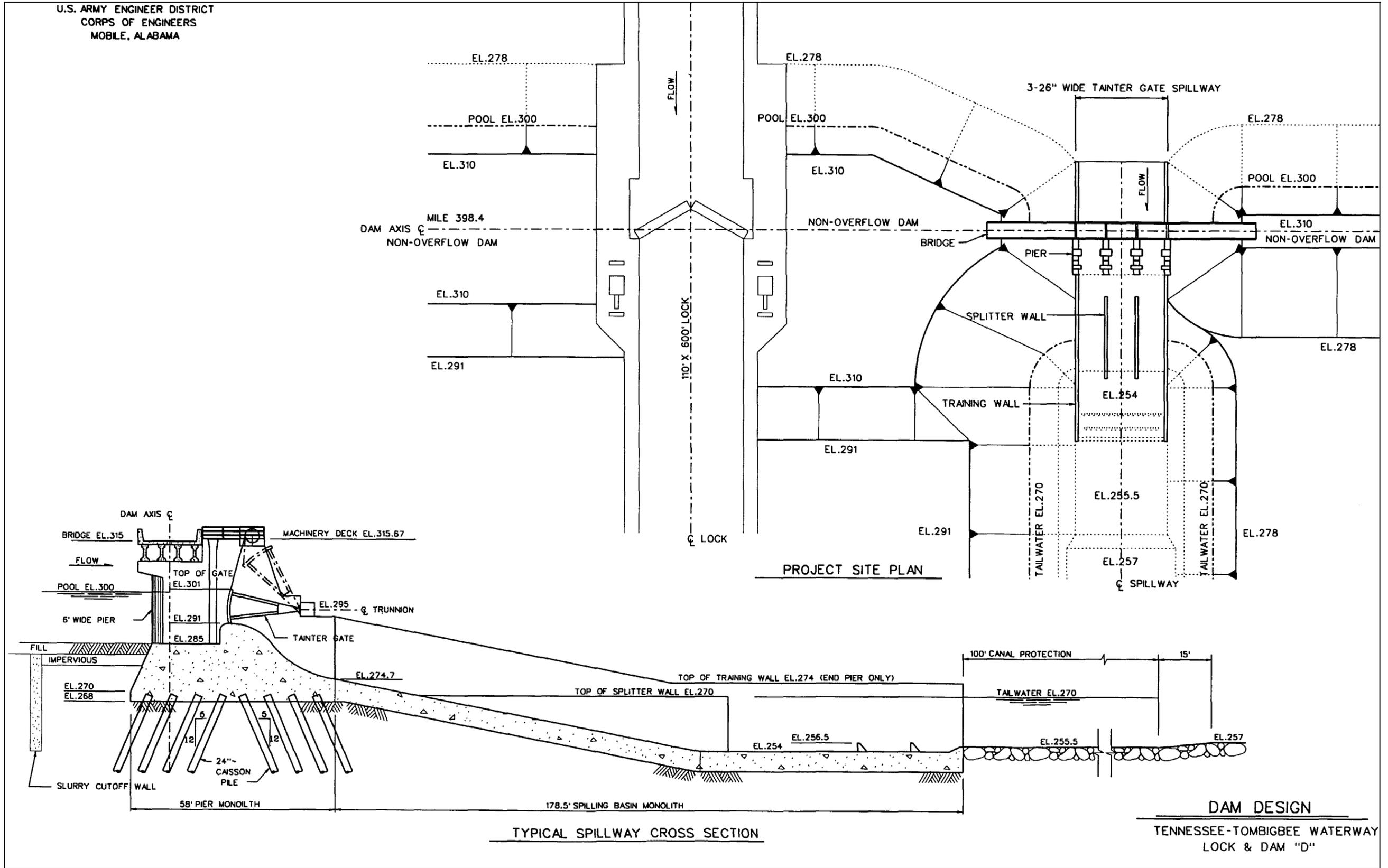


TYPICAL SPILLWAY SERVICE BRIDGE UPSTREAM ELEVATION

**DAM DESIGN**  
SPILLWAY SERVICE BRIDGE  
PLAN, ELEVATION  
& CROSS SECTION

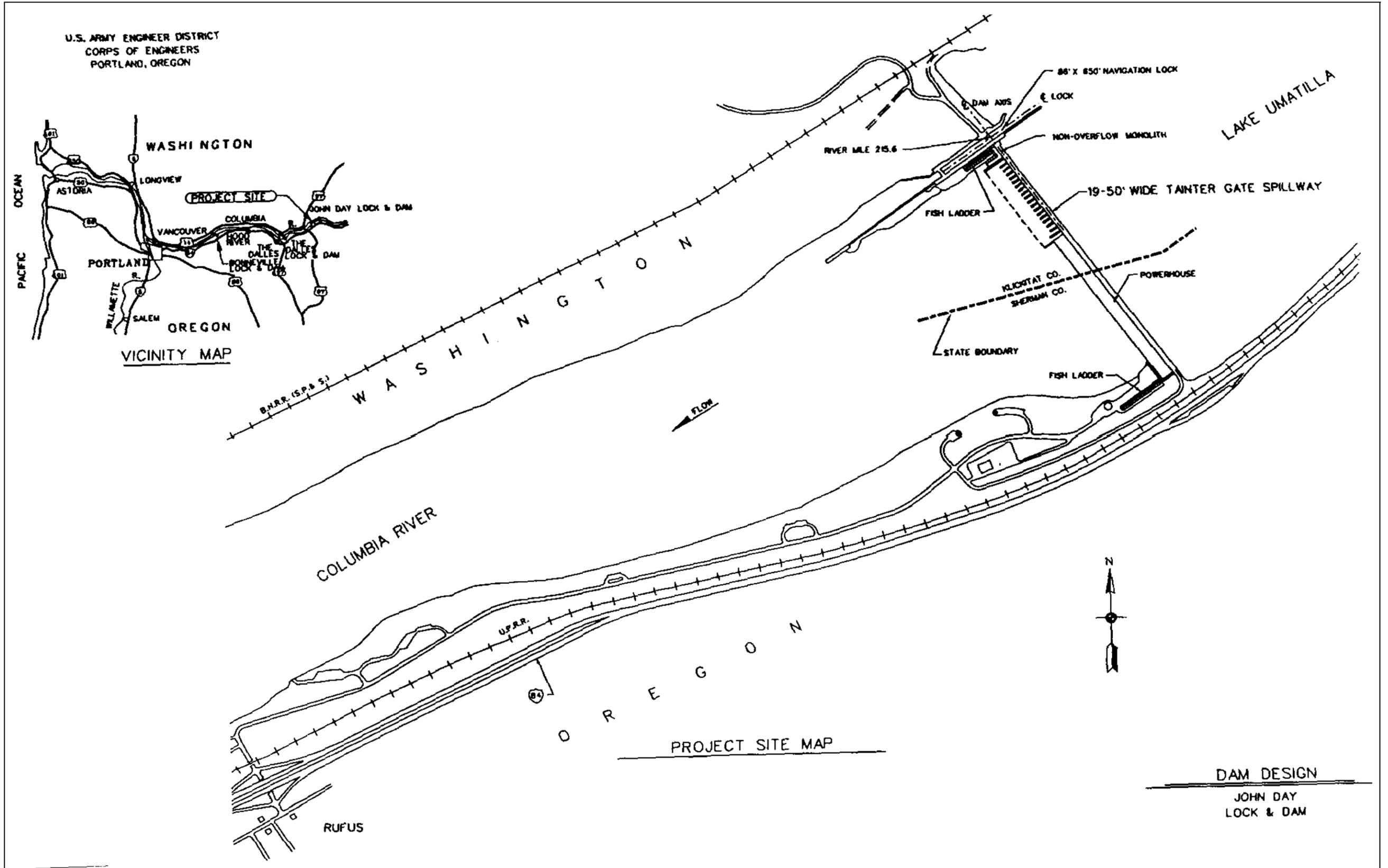


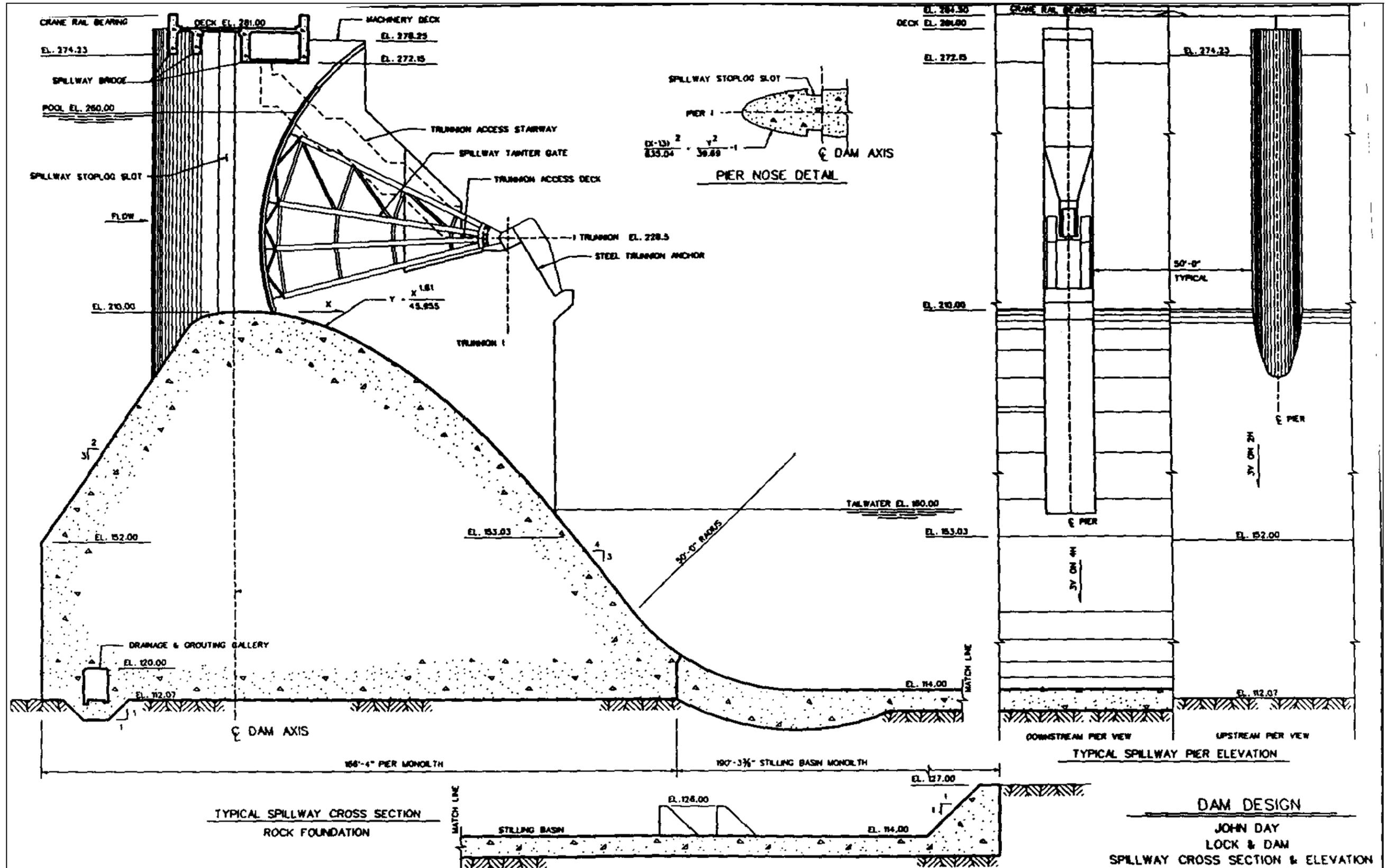
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
MOBILE, ALABAMA

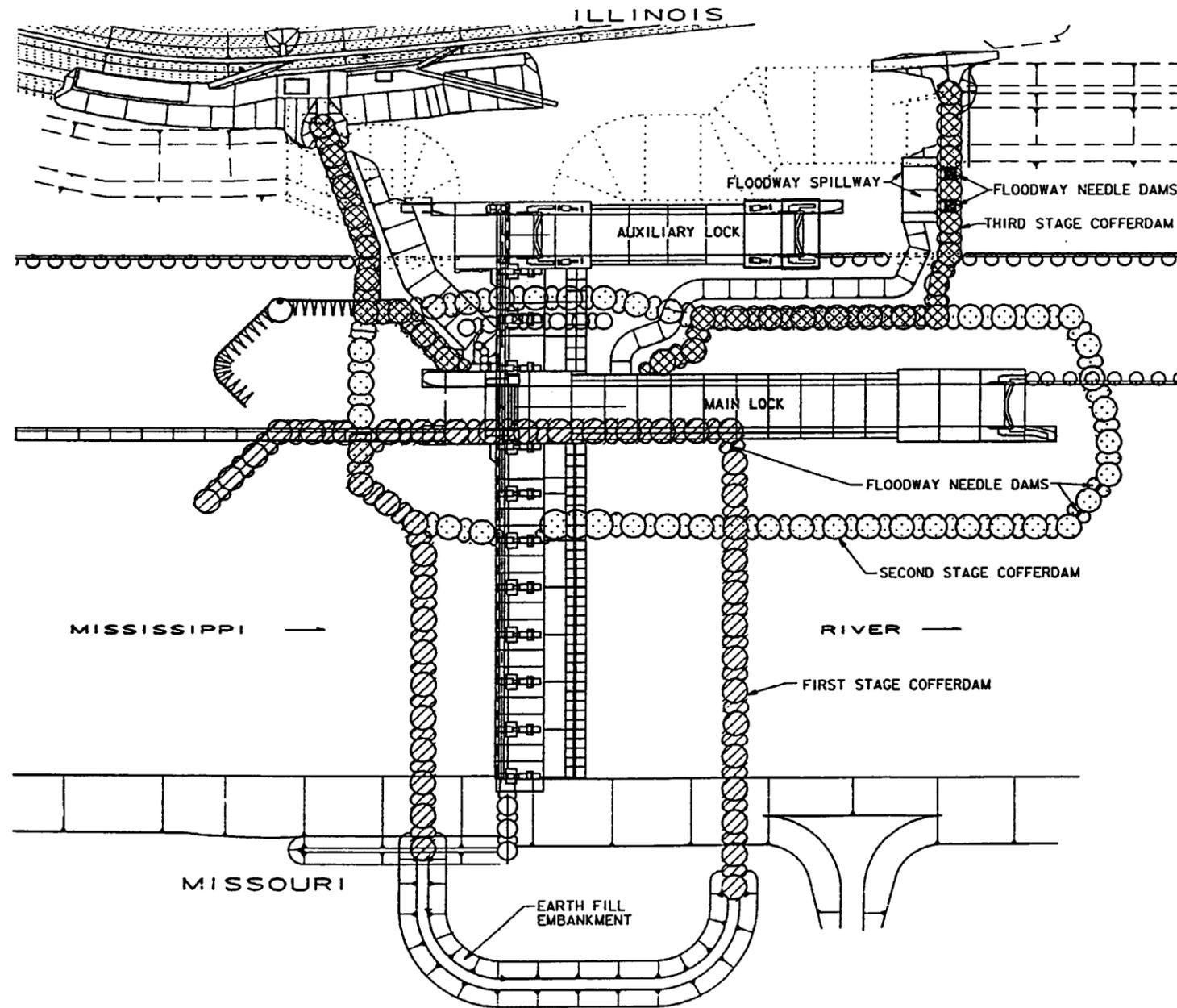


TYPICAL SPILLWAY CROSS SECTION

DAM DESIGN  
TENNESSEE-TOMBIGBEE WATERWAY  
LOCK & DAM "D"

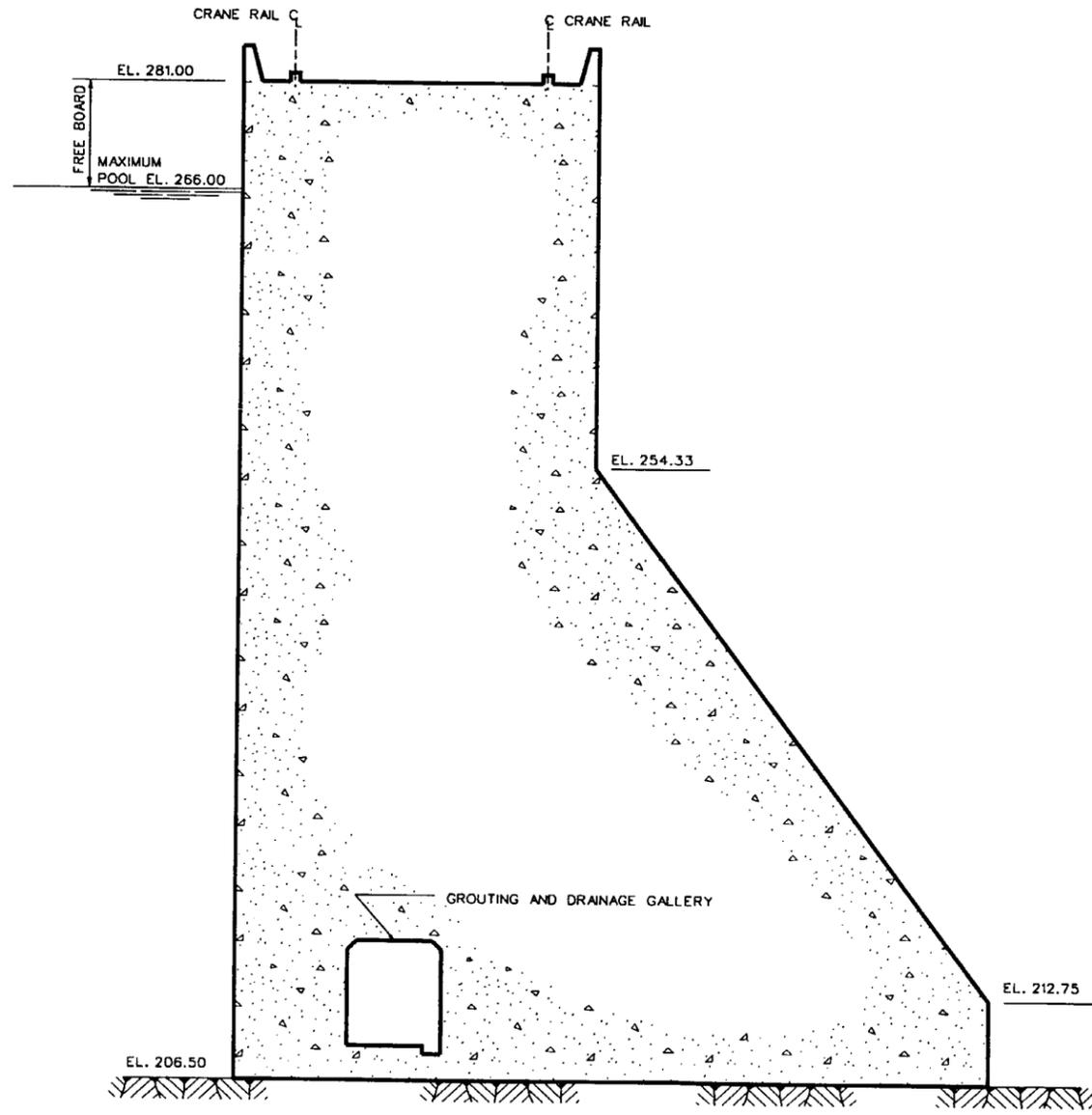




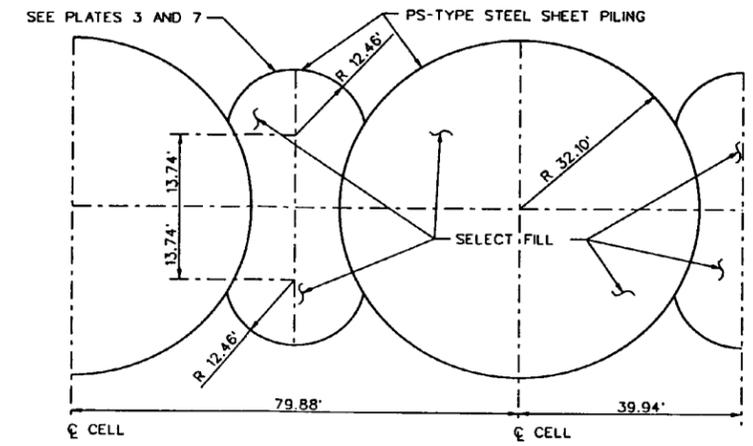


MELVIN PRICE LOCKS & DAM

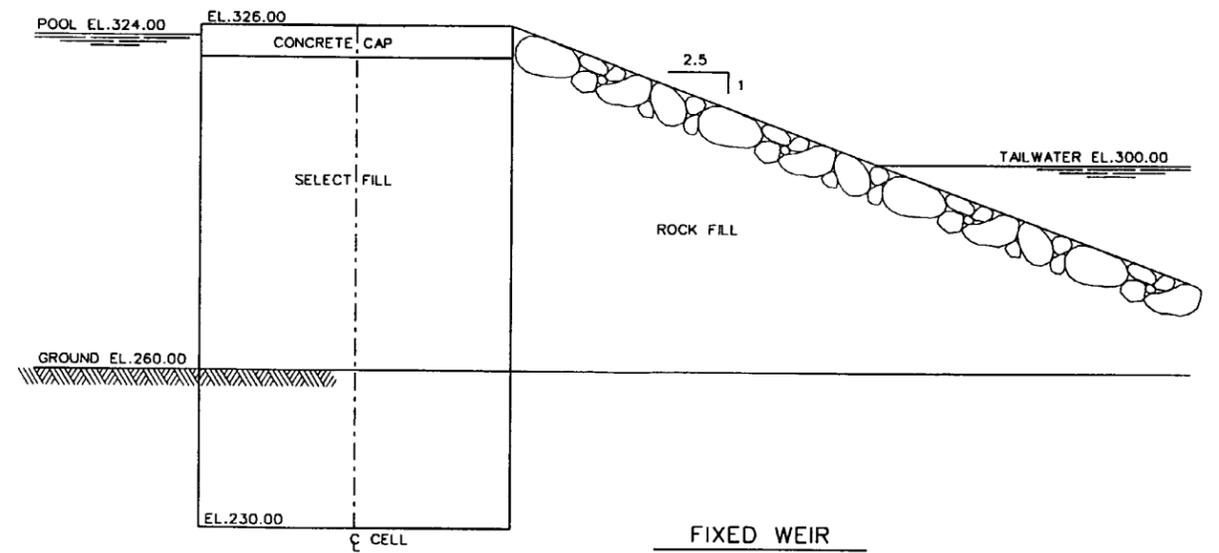
DAM DESIGN  
COFFERDAM LAYOUT  
FOR  
LOCK & DAM CONSTRUCTION



NON-OVERFLOW MONOLITH SECTION

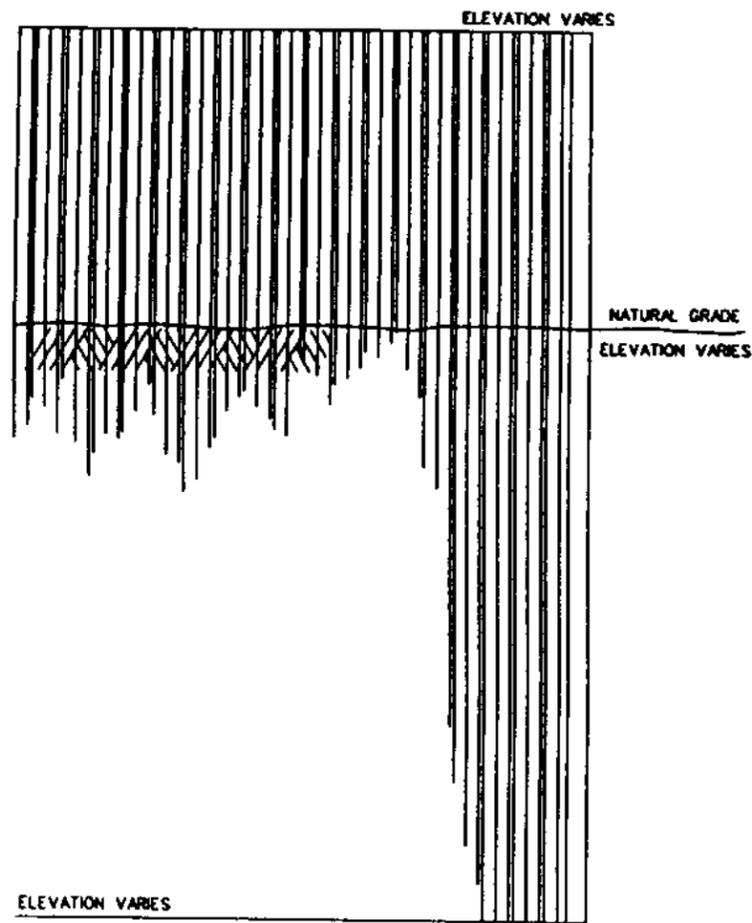
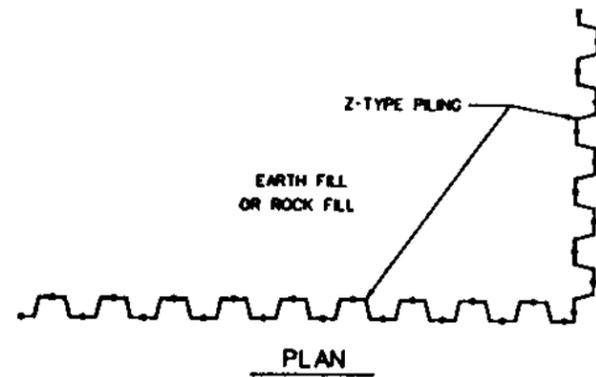


STEEL SHEET PILE CELL PLAN

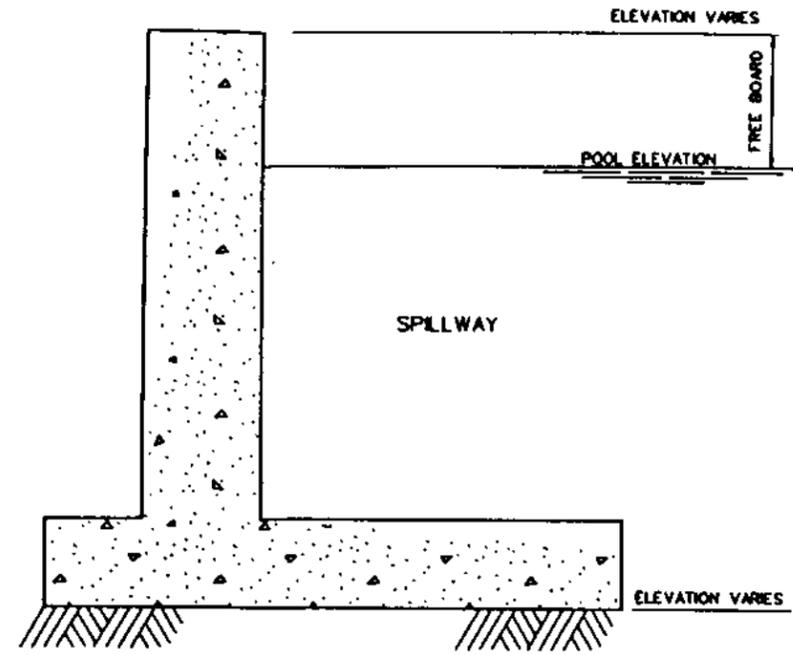


FIXED WEIR

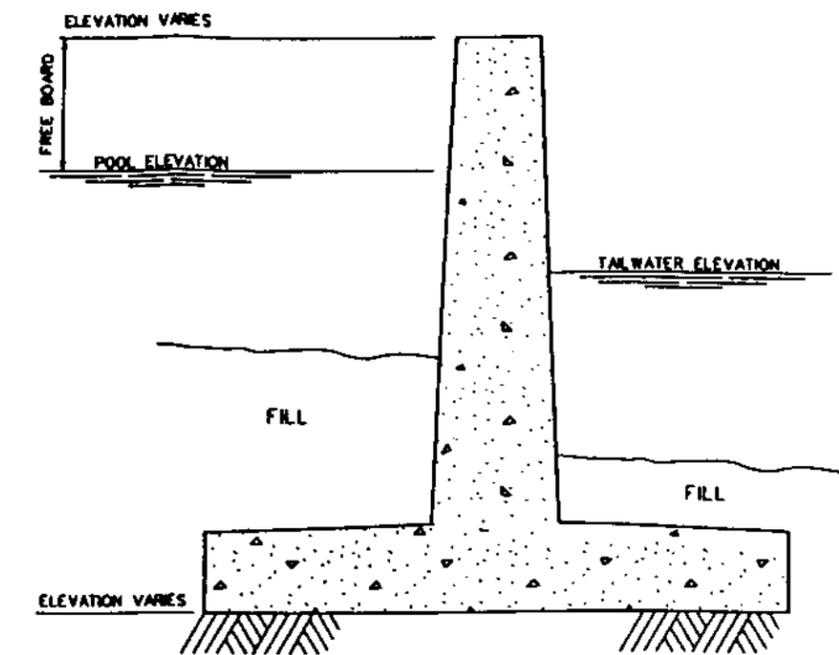
DAM DESIGN  
TYPICAL NON-GATED  
DAM SECTIONS



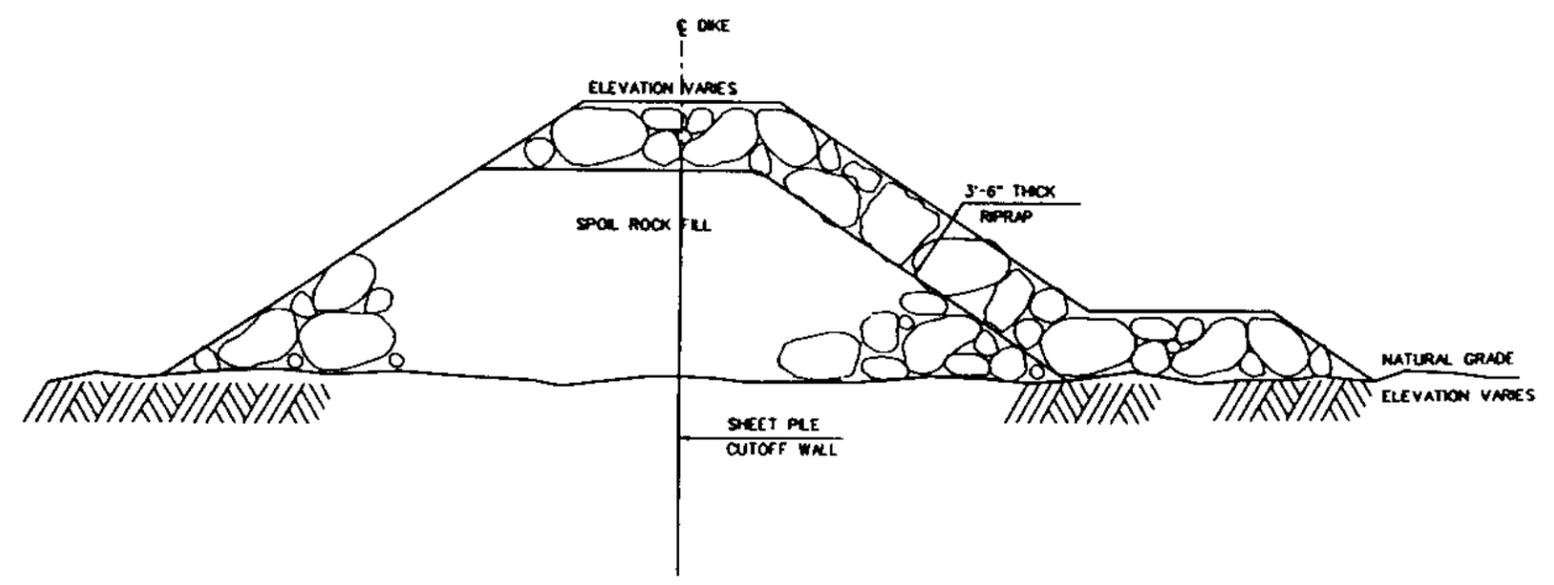
STEEL SHEET PILE WALL ELEVATION



TRAINING WALL SECTION

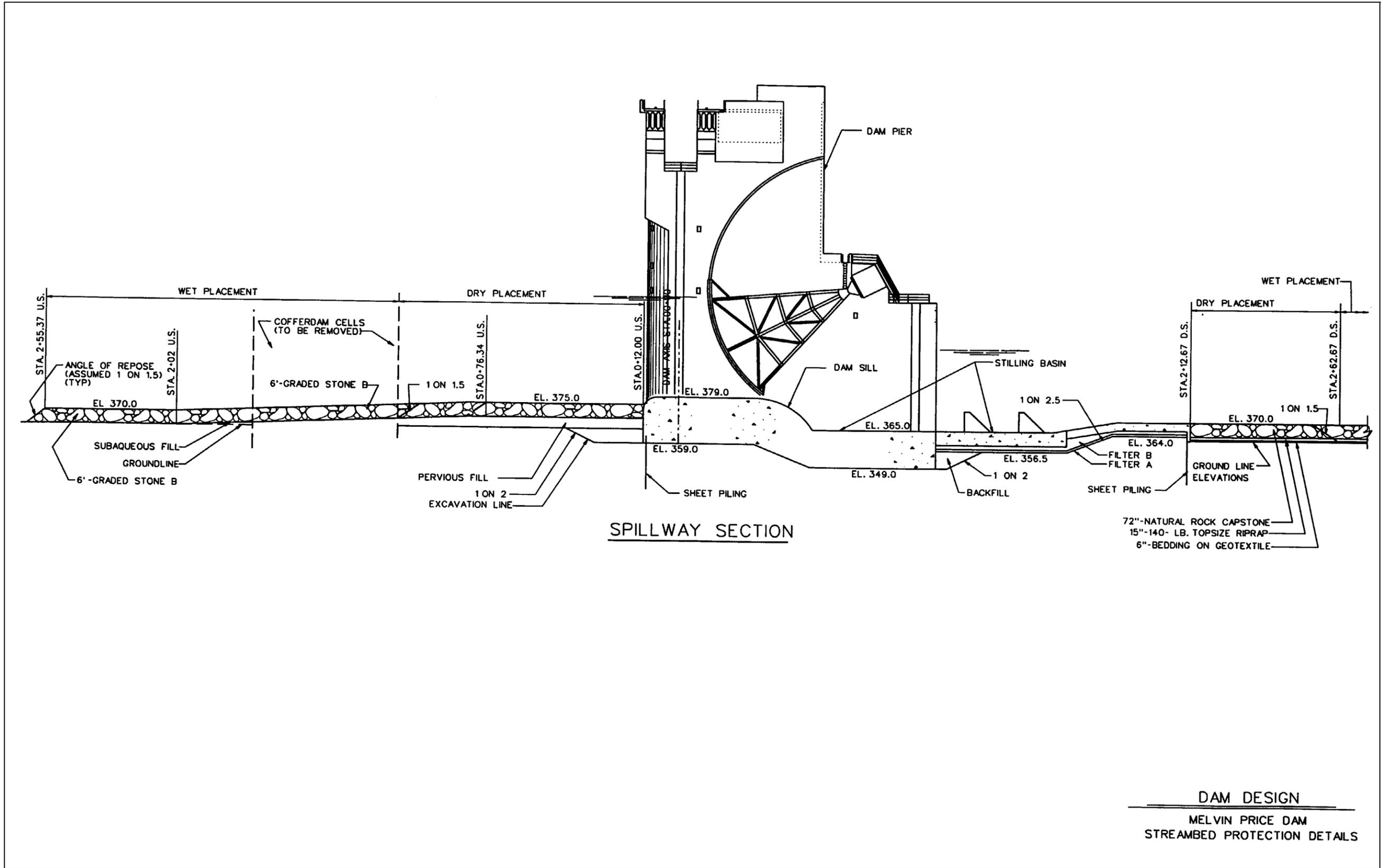


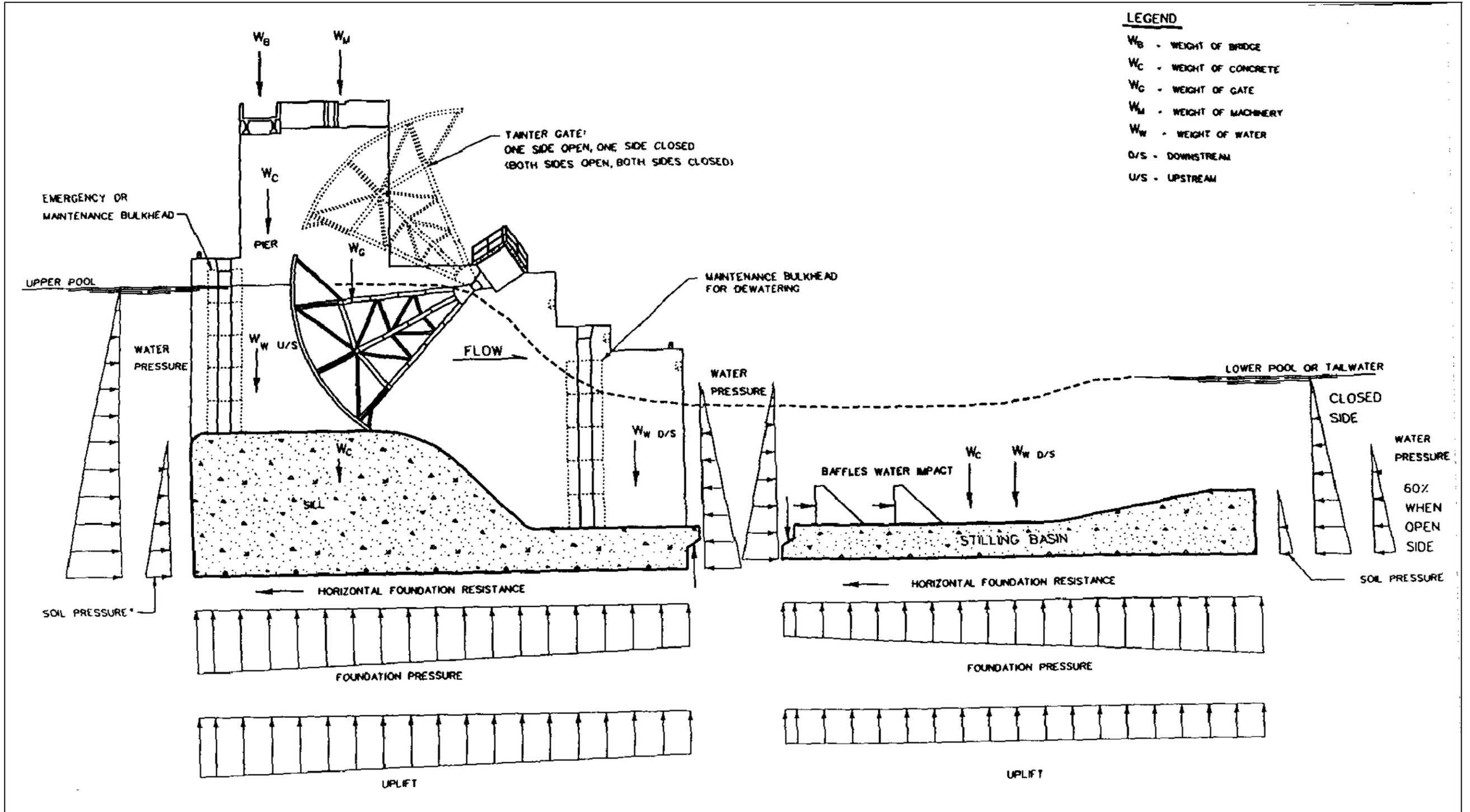
CUTOFF WALL SECTION



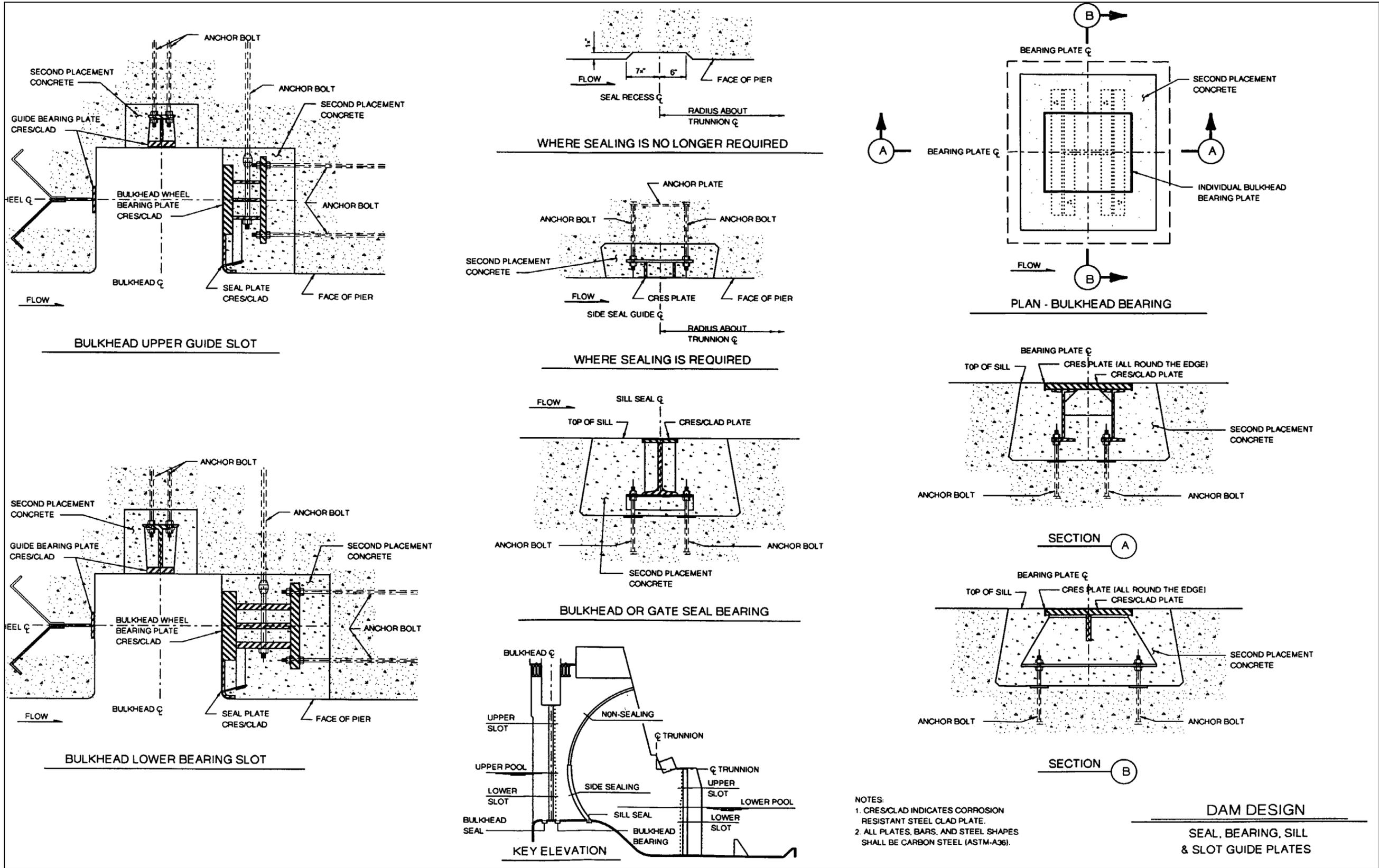
EARTH DIKE SECTION

DAM DESIGN  
MISCELLANEOUS  
DAM FEATURES

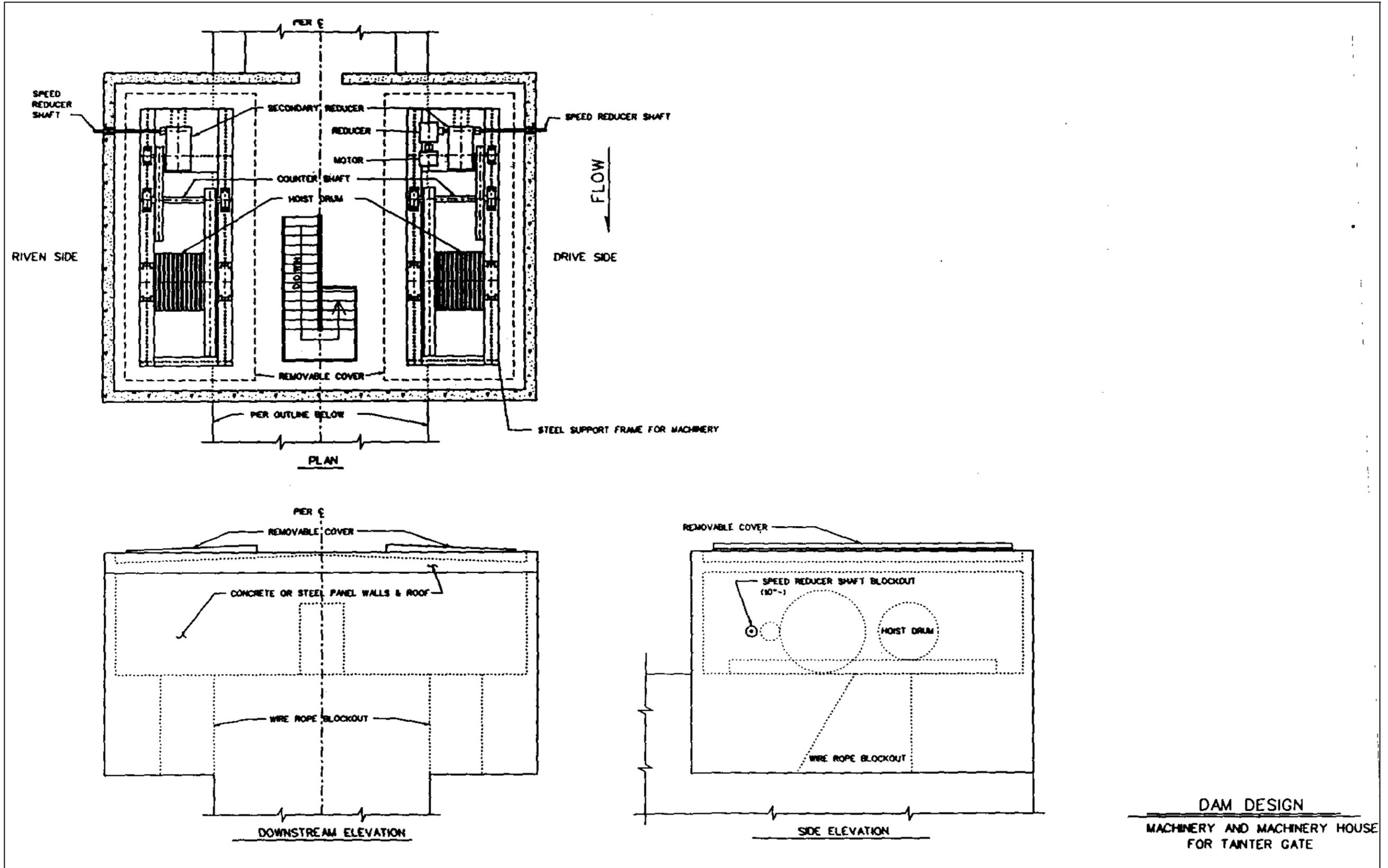




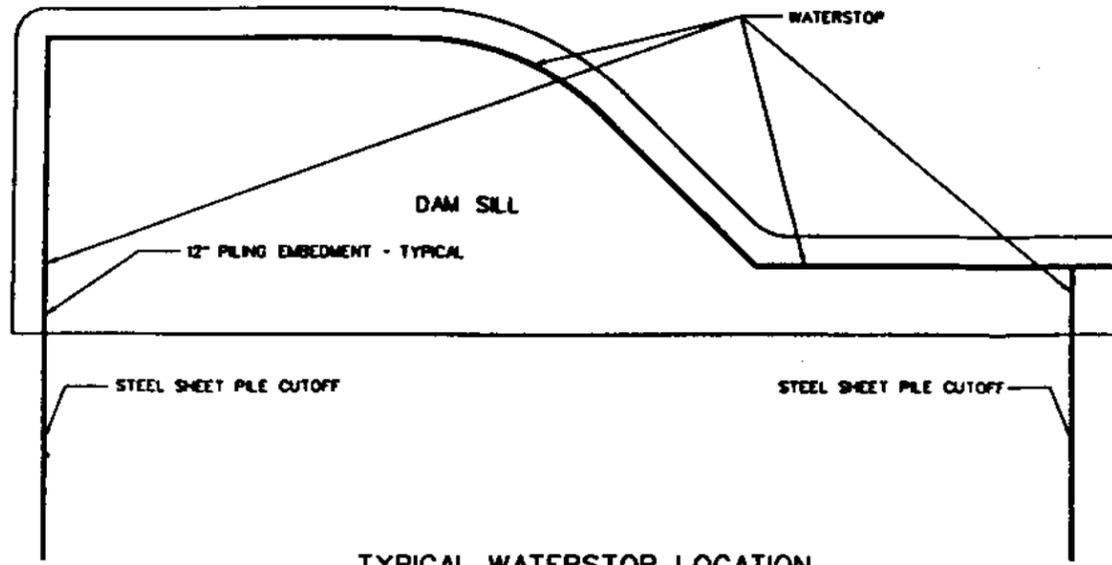
**DAM DESIGN**  
GATED DAM STABILITY  
TYPICAL FREE BODY DIAGRAM



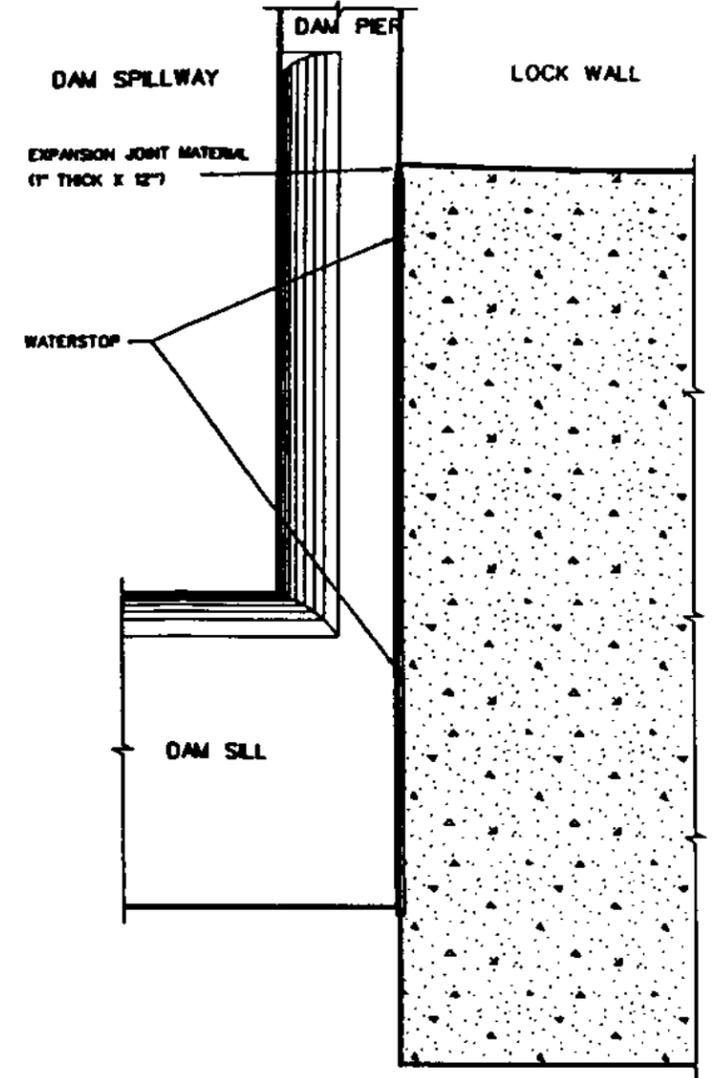
**DAM DESIGN**  
**SEAL, BEARING, SILL & SLOT GUIDE PLATES**



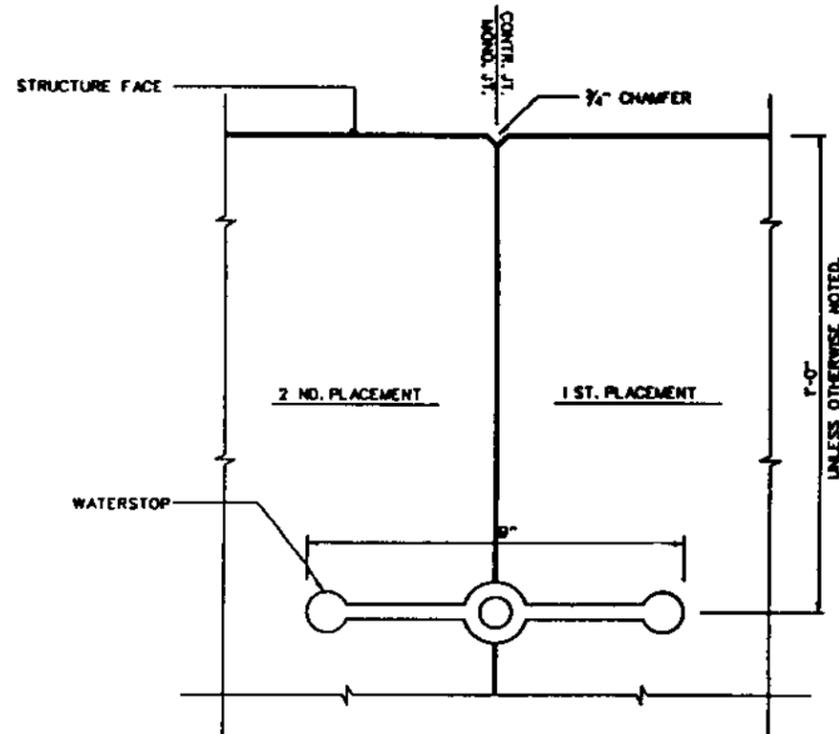
DAM DESIGN  
MACHINERY AND MACHINERY HOUSE  
FOR TANTER GATE



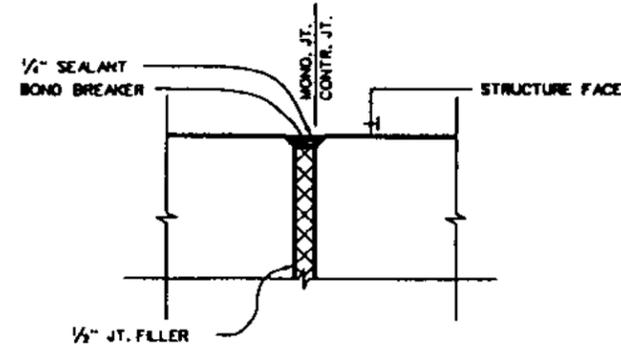
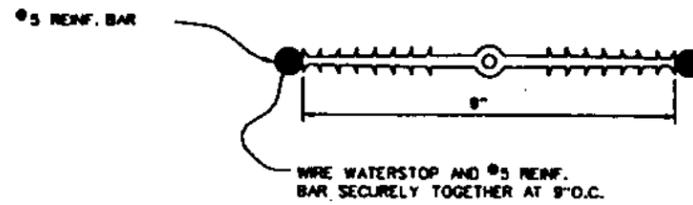
TYPICAL WATERSTOP LOCATION  
(AT MONOLITH JOINT)



UPSTREAM ELEVATION



WATERSTOP JOINT DETAIL



EXPANSION JOINT DETAIL

NOTE:  
WATERSTOPS MAY BE PVC, RUBBER, COPPER,  
OR STAINLESS STEEL.

DAM DESIGN  
WATERSTOPS AND  
EXPANSION JOINT DETAILS